## In the Claims

Please amend the claims as follows. A complete set of claims is presented below, with additions indicated by underlining and deletions indicated by strikethrough.

- 1. (Currently amended) An isolated polypeptide comprising an EphA3 HLA class II-binding peptide eomprising that consists of a fragment of an amino acid sequence selected from the group consisting of SEQ ID NO:3, SEQ ID NO:5 and SEQ ID NO:7 which binds an HLA class II molecule, wherein the fragment comprises the amino acid sequence of SEQ ID NO:53, or a functional variant thereof comprising 2 or fewer amino acid substitutions one or more amino acid additions, substitutions or deletions.
- 2. (Currently amended) The isolated <u>polypeptide</u> HLA class II-binding peptide of claim 1, wherein the isolated <u>polypeptide</u> peptide consists of a fragment of an amino acid sequence selected from the group consisting of SEQ ID NO:3, SEQ ID NO:5 and SEQ ID NO:7, or a functional variant thereof.
- 3. (Canceled)
- 4. (Currently amended) The isolated <u>polypeptide</u> HLA class II-binding peptide of claim [[3]] 1 wherein the isolated peptide fragment comprises an amino acid sequence selected from the group consisting of SEQ ID NO:51, SEQ ID NO:54, SEQ ID NO:62, fragments thereof, and functional variants thereof.
- 5. (Currently amended) The isolated <u>polypeptide</u> HLA class II-binding peptide of claim [[3]] 1, wherein the isolated <u>polypeptide</u> peptide comprises an endosomal targeting signal.
- 6. (Canceled)
- 7. (Currently amended) The isolated <u>polypeptide</u> HLA class H-binding peptide of claim [[3]] 1 wherein the isolated <u>polypeptide</u> peptide is non-hydrolyzable.

- 8. (Canceled)
- 9. (Currently amended) An isolated EphA3 HLA class I-binding peptide comprising a fragment of an amino acid sequence selected from the group consisting of SEQ ID NO:3, SEQ ID NO:5 and SEQ ID NO:7 which binds an HLA class I molecule, or a functional variant thereof comprising one or more amino acid additions, substitutions or deletions.
- 10. (Currently amended) A composition comprising an isolated EphA3 HLA class I-binding peptide and the isolated polypeptide EphA3 HLA class II-binding peptide of claim 1.
- 11.-14. (Canceled)
- 15. (Currently amended) An isolated nucleic acid encoding the <u>polypeptide</u> of claim [[3]] 1, wherein the nucleic acid does not encode full length EphA3.
- 16.-20. (Canceled)
- 21. (Currently amended) A method for enriching selectively a population of T lymphocytes with T lymphocytes specific for an EphA3 HLA binding peptide comprising:

contacting a source of T lymphocytes which contains a population of T lymphocytes with an agent presenting a complex of the EphA3 HLA binding peptide contained in the isolated polypeptide of claim 1 and an HLA molecule in an amount sufficient to selectively enrich the population of T lymphocytes with the T lymphocytes specific for an EphA3 HLA binding peptide.

## 22.-51. (Canceled)

52. (Currently amended) An isolated antigen presenting cell which comprises a complex of an HLA molecule and the EphA3 HLA binding peptide contained in the isolated polypeptide of claim 1.

- 53. (Canceled)
- 54. (Currently amended) A vaccine comprising the <u>isolated</u> polypeptide of claim 1 and a pharmaceutically acceptable carrier.

## 55.-64. (Canceled)

- 65. (New) The isolated polypeptide of claim 5, wherein the endosomal targeting signal comprises an endosomal targeting portion of a polypeptide selected from the group consisting of human invariant chain Ii and LAMP-1.
- 66. (New) The isolated polypeptide of claim 7 wherein the isolated polypeptide is selected from the group consisting of polypeptide comprising D-amino acids, peptides comprising a -psi[CH<sub>2</sub>NH]-reduced amide peptide bond, peptides comprising a -psi[COCH<sub>2</sub>]-ketomethylene peptide bond, peptides comprising a -psi[CH(CN)NH]-(cyanomethylene)amino peptide bond, peptides comprising a -psi[CH<sub>2</sub>CH(OH)]-hydroxyethylene peptide bond, peptides comprising a -psi[CH<sub>2</sub>O]-peptide bond, and peptides comprising a -psi[CH<sub>2</sub>S]-thiomethylene peptide bond.
- 67. (New) The composition of claim 10, wherein the EphA3 HLA class I-binding peptide and the polypeptide are combined as a polytope polypeptide.
- 68. (New) The composition of claim 10, wherein the isolated polypeptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO:51, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:62.
- 69. (New) The composition of claim 10, wherein the isolated polypeptide comprises an endosomal targeting signal.

- 70. (New) The composition of claim 69, wherein the endosomal targeting signal comprises an endosomal targeting portion of a polypeptide selected from the group consisting of human invariant chain Ii and LAMP-1.
- 71. (New) The isolated nucleic acid of claim 15, wherein the nucleic acid comprises a fragment of a nucleotide sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:52, and fragments of SEQ ID NO:52.
- 72. (New) The method of claim 21, wherein the agent is an antigen presenting cell contacted with an EphA3 protein or an HLA class II binding fragment thereof.
- 73. (New) The method of claim 21 wherein the HLA molecule is an HLA-DR11 molecule.
- 74. (New) The method of claim 21, wherein the isolated polypeptide comprises an endosomal targeting portion of a polypeptide selected from the group consisting of human invariant chain Ii and LAMP-1.
- 75. (New) The isolated antigen presenting cell of claim 52 wherein the HLA molecule is an HLA-DR11 molecule.
- 76. (New) The vaccine of claim 54, further comprising an adjuvant.